Bruhat Bengaluru
Mahanagara Palike

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

1st & final E-Bill

Name of Work:- Construction of Additional floor to Ambedkara Samudaya Bhavana in Allalasandra in ward No-04.

Estimate Cost RS :- 30.00 Lakh's

Agency:- SRI MANOJ NAIK B M,58 3rd Main Road,Manasa Layout,Kengeri Upanagara,Bangalore-560060.

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Agency:- SRI MANOJ NAIK B M,58 3rd Main Road,Manasa Layout,Kengeri Upanagara,Bangalore-560060.

Measurements Taken On:- 02/08/2024

S.NO	Description of Item	Unit	No	Mesurement L	Mesurement B	Mesurement D	Qty	Rate	Amount
1	Engaging on Hire Basis of Tractor -Trolley for conveying of excavated and removal of stuff from work spot.**(As per Log Book Enclosed)**								
		Hr	1 Day	8 Hour			8.00		
			1 Day	8 Hour			8.00		
			1 Day	8 Hour			8.00		
			1 Day	8 Hour			8.00		
			1 Day	8 Hour			8.00		
					Total Qty		**40.00**	681.60	**27264.00**
2	Labour charges to unskilled mazdoor heavy.**(As per Log Book Enclosed)**								
		Day	1 Day	8 No			8.00		
			1 Day	8 No			8.00		
			1 Day	8 No			8.00		
			1 Day	8 No			8.00		
			1 Day	8 No			8.00		
					Total Qty		**40.00**	500.61	**20024.40**
3	Concrete cutting machine.**(As per Log Book Enclosed)**								
		Hr	1 Day	8 Hour	6 No		48.00		
			1 Day	8 Hour	6 No		48.00		
			1 Day	8 Hour	6 No		48.00		
			1 Day	8 Hour	6 No		48.00		
			1 Day	8 Hour	6 No		48.00		
					Total Qty		**240.00**	187.39	**44973.60**
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m.								
		Cum							
	Quantity Vide As Per Pre-Measurement are Prepared in Excel Sheets:-						6.62		
					Total Qty		**6.62**	225.38	**1490.89**
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification.								
		Cum							
	Quantity Vide As Per Pre-Measurement are Prepared in Excel Sheets:-						0.17		
					Total Qty		**0.17**	6514.49	**1099.32**
6	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates.								
	Parapet Wall Coping:-Long wall	Cum	1	6.05	0.15	0.10	0.09		
			1	4.85	0.15	0.10	0.07		
			1	1.10	0.15	0.10	0.02		
	short wall		1	6.10	0.15	0.10	0.09		
			1	0.60	0.15	0.10	0.01		
	Chambers		4	0.75	0.15	0.10	0.05		
			4	0.45	0.15	0.10	0.03		
	Inside		2	0.45	0.45	0.15	0.06		
	Hall		1	8.40	4.65	0.05	1.95		
			1	4.90	1.35	0.05	0.33		

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			1	1.50	0.55	0.05	0.04		
	Room inside		1	4.70	2.15	0.05	0.51		
					Total Qty		**3.24**	6904.09	**22393.42**
7	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.								
	Filling Available of Excavated Earth	Cum							
	Earth Work Excavation		From Item No. 4				**6.62**		
	(-)Deductions:-								
	PCC for chambers		From Item No. 5				0.17		
	Chamber walls		2	0.75	0.75	0.6	0.68		
							0.84		
					Total Qty		**5.77**		
		Limited To Schedule B Quantity					**5.10**	181.21	**924.17**
8	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3)								
	Excavated Earth	Cum	From Item No. 4+7				12.39		
					Total Qty		**12.39**		
		Limited To Schedule B Quantity					**11.71**	97.40	**1140.55**
9	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km.								
		T.Km		12.39		1.28	15.85		
					Total Qty		**15.85**		
		Limited To Schedule B Quantity					**14.99**	121.08	**1814.99**
10	Providing and laying in position Reinforced cement concrete for all **Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates								
	Second floor Column's	Cum	6	0.45	0.25	4.20	2.84		
	Third floor Room Columns		4	0.45	0.25	3.50	1.58		
					Total Qty		**4.41**	8249.60	**36380.74**
11	Lintel Beams:-								
	Lintel Beams:- Second floor Long Wall	Cum	2	8.90	0.20	0.20	0.71		
	Short Wall		2	4.65	0.20	0.20	0.37		
			2	1.35	0.20	0.20	0.11		
	Chejja(self)		1	4.65	0.45	0.10	0.21		
	Third floor Room:-Long Wall		2	5.00	0.20	0.20	0.40		
	Short Wall		2	2.15	0.20	0.20	0.17		
	Beam:-Longer Span		2	8.90	0.25	0.35	1.56		
	Shorter Span		3	4.65	0.25	0.35	1.22		
			3	1.50	0.25	0.35	0.39		
	Third floor Room:-Long Wall		2	5.00	0.20	0.30	0.60		
	Short Wall		2	2.15	0.20	0.30	0.26		
	Roof Slab:-Second floor		1	6.50	5.20	0.15	5.07		
			1	5.90	1.35	0.15	1.19		
			1	5.00	2.55	0.15	1.91		
	Third floor Room		1	5.00	3.35	0.15	2.51		
	Staire case:-5th flight		1	3.45	0.90	0.15	0.47		
	Landing		1	1.80	0.90	0.15	0.24		
	6th flight		1	1.95	0.90	0.15	0.26		
	Steps	0.50	12	0.90	0.23	0.15	0.19		
		0.50	6	0.90	0.23	0.15	0.09		
	Terrace:-Second floor		1	6.40	5.10	0.05	1.63		
			1	5.60	1.25	0.05	0.35		
			1	4.90	2.55	0.05	0.62		
	Third floor Room		1	4.50	3.00	0.05	0.68		
					Total Qty		**21.23**	8999.56	**191025.34**

12	Providing and laying in position plain cement concrete for levellingcourse for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates.									
	Second floor:-Flooring	Cum	1	8.40	4.65	0.10	3.91			
			1	4.90	1.35	0.10	0.66			
			1	1.50	0.55	0.10	0.08			
	Stage		1	4.65	3.00	0.10	1.40			
	Third floor Room		1	4.70	2.15	0.10	1.01			
					Total Qty		**7.06**	6711.55	**47353.34**	
13	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)									
		Kg's								
	Quantity Vide As Per Pre-Measurement are Prepared in Excel Sheets:-						4243.59			
					Total Qty		**4243.59**	108.73	**461405.60**	
14	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications.									
	Second floor:-Long wall	Sqm	2	8.90		3.00	53.40			
	Short wall		2	4.65		3.00	27.90			
	Third floor Room		2	5.10		2.70	27.54			
			2	2.15		2.70	11.61			
	Partition		1	1.20		2.70	3.24			
							123.69			
	(-)Deduction									
	D		2	1.00		2.10	4.20			
	W		2	1.20		1.20	2.88			
	Second floor Lintel:-Long Wall	Cum	2	8.90		0.20	3.56			
	Short Wall		2	4.65		0.20	1.86			
	Beam:-Longer Span		2	8.90		0.30	5.34			
	Shorter Span		2	4.65		0.30	2.79			
			2	1.50		0.30	0.90			
	Third floor Room Lintel :-Long Wall		2	5.00		0.20	2.00			
	Short Wall		2	2.15		0.20	0.86			
	Third floor Room:-Long Wall		2	5.00		0.30	3.00			
	Short Wall		2	2.15		0.30	1.29			
							28.68			
					Total Qty		**95.01**	1513.33	**143781.48**	
15	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.									
	Parapet wall Second floor:-long wall	Sqm	1	6.20		0.90	5.58			
			1	1.10		0.90	0.99			
			1	5.15		0.90	4.64			
	short wall		1	6.10		0.90	5.49			
			1	0.60		0.90	0.54			
	Third floor Parapet wall		2	5.10		0.60	6.12			
			2	2.15		0.60	[illegible]			
	1st flooe staircase wall		1	0.80		3.00	[illegible]			
	Chambers		4	0.75		0.80	2.40			
			4	0.45		0.80	1.44			
					Total Qty		**32.18**			
					Limited To Schedule B Quantity		**30.78**	1419.53	**43693.13**	
16	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.									
	Stage	Sqm	1	4.50		0.40	1.80			

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			2	3.00		0.40	2.40		
					Total Qty		**4.20**	1273.08	**5346.94**
17	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.								
	Second floor:-Long wall	Sqm	2	8.90		3.30	58.74		
	short wall		2	6.50		3.30	42.90		
	Parapet wall		1	6.20		1.20	7.44		
			1	6.50		1.20	7.80		
			1	5.10		1.20	6.12		
			1	1.10		1.20	1.32		
			1	0.60		1.20	0.72		
	Roof Surface		1	4.70	2.15		10.11		
	Third Floor Room		2	5.10		3.00	30.60		
			2	2.45		3.00	14.70		
	Parapet wall		2	5.10		0.90	9.18		
			2	2.45		0.90	4.41		
	Roof Surface		1	6.05	6.10		36.91		
							230.94		
	(-)Deduction								
	D		2	1.05		2.10	4.41		
	W		2	1.20		1.20	2.88		
	V		1	1.20		0.30	0.36		
							7.65		
					Total Qty		**223.29**		
					Limited To Schedule B Quantity		**196.41**	436.04	**85642.62**
18	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	Second floor:-Long wall	Sqm	2	8.40		3.00	50.40		
	Short wall		2	4.65		3.00	27.90		
	Cealing		1	8.40	4.65		39.06		
			1	4.90	1.35		6.62		
	Third floor :-Long wall		2	4.70		2.70	25.38		
	short wall		2	2.15		2.70	11.61		
	Partition wall		2	1.20		2.10	5.04		
	Cealing		1	4.70	2.15		10.11		
			1	5.00	0.90		4.50		
							180.61		
	(-)Deductions								
	D		2	1.05		2.10	4.41		
	W		2	1.20		1.20	2.88		
	V		1	1.20		0.30	0.36		
							7.65		
					Total Qty		**172.96**		
					Limited To Schedule B Quantity		**149.91**	365.82	**54840.08**
19	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications.								
	Rough plastering:-	Sqm	1	4.50		2.40	10.80		
	Stage		2	4.50		0.45	4.05		
			4	3.00		0.45	5.40		
					Total Qty		**20.25**	395.26	**8004.02**
20	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.								
	Internal Plastering	Sqm	Quantity Vide item No-18				172.96		
					Total Qty		**172.96**		
					Limited To Schedule B Quantity		**149.91**	113.26	**16978.81**

Executive Engineer,
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21	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.									
	Internal Painting	Sqm	Quantity Vide item No-20				172.96			
	GF:-Cealing:-Rooms		1	6.30	4.70		29.61			
			1	1.95	4.70		9.17			
	Portica		1	8.50	1.45		12.33			
	Interior Walls		2	6.30		3.00	37.80			
			2	4.70		3.00	28.20			
			2	1.95		2.40	9.36			
			4	1.05		2.40	10.08			
			2	4.70		2.40	22.56			
			1	8.50		3.00	25.50			
			2	1.45		3.00	8.70			
	FF:-Cealing:-Rooms		1	6.30	4.70		29.61			
			1	1.95	4.70		9.17			
	Portica		1	8.50	1.45		12.33			
	Interior Walls									
	Long Wall		2	8.55		3.00	51.30			
	Short Wall		2	4.70		3.00	28.20			
							496.86			
	(-)Deductions									
	GF:-Main Door		1	1.05		2.10	2.21			
	W		2	1.20		1.20	2.88			
			1	0.90		1.20	1.08			
	FF:- Door		1	1.05		2.10	2.21			
	W		2	1.20		1.20	2.88			
			1	0.90		1.20	1.08			
							12.33			
					Total Qty		**484.53**			
			Limited To Schedule B Quantity				**461.69**	130.24	**60130.51**	
22	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.									
	External painting	Sqm	Quantity Vide item No-17				196.41			
	GF:-Long Wall		2	8.90		3.45	61.41			
	Short Wall		2	6.50		3.45	44.85			
	FF:-Long Wall		2	8.90		3.45	61.41			
	Short Wall		2	6.50		3.45	44.85			
							408.93			
	(-)Deductions									
	GF:-Main Door		1	1.05		2.10	2.21			
	OD		1	0.75		1.95	1.46			
	W		2	1.20		1.20	2.88			
	FF:-Main Door		1	1.00		2.10	2.10			
	W		2	1.20		1.20	2.88			
			1	0.90		1.20	1.08			
							12.61			
					Total Qty		**396.32**			
			Limited To Schedule B Quantity				**396.32**	201.60	**79898.62**	
23	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per direction of Engineer incharge.									
	Hardener concrete:-	Sqm								
	Inside:-Second floor		1	6.40	5.10		32.64			
			1	5.60	1.25		7.00			
			1	4.90	2.50		12.25			
	Third floor Room		1	4.50	3.00		13.50			
	Stage		1	4.50	3.00		13.50			
					Total Qty		78.89			
			Limited To Schedule B Quantity				72.00	906.05	65235.60	

24	Providing and laying Polished Glazed Vitrified tiles in floor with different sizes (Thickness to be specified by the manufacture) with water absorption less than 0.08% and confirming to IS:15622,of approved brand and manufacture in all colours and shade,laid with cement based high polymer modified quick set tile adhesive (water based) confirming to IS :15477,in average 6mm thickness including grouting of joints (payment for grouting of joints to be made separately) Sizes of 600 x 600 MM).									
	SF,Flooring Area	Sqm	1	8.40	4.65		39.06			
	Skirting		2	8.40		0.10	1.68			
			2	4.65		0.10	0.93			
	Stage		1	4.65		0.30	1.40			
	Portica		1	4.90	1.35		6.62			
	Skirting		1	4.90		0.10	0.49			
			1	1.35		0.10	0.14			
	Passage		1	1.50	0.55		0.83			
	Skirting		2	1.50		0.10	0.30			
	FF Damaged portion		1	4.50	3.00		13.50			
	Third floor Room		1	4.70	2.15		10.11			
	Skirting		2	4.70		0.10	0.94			
			2	2.15		0.10	0.43			
	Stairecase:-									
	Landing		1	1.65	0.85		1.40			
			1	1.65		0.10	0.17			
			2	0.85		0.10				
	Rises,Steps		20	0.85		0.15	2.55			
	Threads		18	0.85	0.23		3.52			
	Skirting		1	3.45		0.10	0.35			
			1	1.95		0.10	0.20			
							84.58			
	(-)Third floor Toilet		1	1.20	0.90		1.08			
						Total Qty	83.50			
							81.83			
				Limited To Schedule B Quantity			**83.50**	1501.77	**125400.05**	
25	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per m2 including pointing in white cement mixed with pigment of matching shade complete.									
	Third floor Toilet	Sqm	1	1.20	0.90		1.08			
	For Toilet,Damaged Stretches		1	1.20	1.20		1.44			
						Total Qty	**2.52**	1252.61	**3156.58**	
26	Providing skirting, dadooing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.									
	Third floor Toilet Room	Sqm	2	1.20		2.70	6.48			
			1	0.93		2.70	2.51			
	For Toilet,Damaged Stretches		1	2.10		0.60	1.26			
			1	1.20		0.40	0.48			
			1	1.20		1.50	1.80			
						Total Qty	**12.53**	1641.08	**20564.37**	
27	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.									
	D	Nos	2				2.00			
						Total Qty	**2.00**	1150.68	**2301.36**	
28	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.									
	D	Cum	2	7.20	0.15	0.10	0.22			
							0.22	156377.09	**33777.45**	
29	Providing and fixing in position fully panelled Honne wood shutters for doors with , stiles and rails of 35mm. thick with bottom and [illegible] 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)									
	D	Sqm	2	1.05		2.10	4.41			
						Total Qty	**4.41**	8024.19	**35386.68**	

30	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @0.75 ltr/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.								
	D:-	Sqm	2x2	1.05		2.10	8.82		
	GF:-		1x2	1.00		2.10	4.20		
	FF:-		1x2	1.00		2.10	4.20		
					Total Qty		**17.22**	156.29	**2691.31**
31	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made).								
	W	Sqm	2	1.20		1.20	2.88		
			3	1.20		1.20	4.32		
					Total Qty		**7.20**		
					Limited To Schedule B Quantity		**6.48**	6477.11	**41971.67**
32	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.								
	W	Kg	2	1.20		1.20	2.88		
	V		1	1.20		0.30	0.36		
			4	1.20		1.20	5.76		
	Staire case Grill		1	3.45		0.80	2.76		
			1	0.90		0.80	0.72		
			1	1.95		0.80	1.56		
	Ground to second floor front Grill		1	8.95		10.30	92.19		
	Lader for Room		1	0.60		3.90	2.34		
	Main Gate		1	3.00		2.10	6.30		
							114.87		
				21kg /1 Sqm Area			2412.17		
					Total Qty		**2412.17**		
					Limited To Schedule B Quantity		**2409.12**	207.26	**499314.21**
33	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer including cost of materials ,labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.								
	CG:-Second floor	Sqm	1	1.80		2.40	4.32		
	Third floor		1	1.80		2.40	4.32		
					Total Qty		**8.64**	9373.07	**80983.32**
34	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.								
		Sqm							
	W	2.50	2	1.20		1.20	7.20		
	V	2.50	1	1.20		0.30	0.90		
		2.50	4	1.20		1.20	14.40		
	Staire case Grill	2.50	1	3.45		0.80	6.90		
		2.50	1	0.90		0.80	1.80		
		2.50	1	1.95		0.80	3.90		
	Ground to second floor front Grill	2.50	1	8.95		10.30	230.46		
	Lader for Room	2.50	1	0.60		3.90	5.85		
	Main Gate	2.50	1	3.00		2.10	15.75		
	GF:-	2.50	2	1.20		1.20	7.20		
	Staire case Grill	2.50	1	3.90		0.80	7.80		
		2.50	1	0.90		0.80	[illegible]		
		2.50	1	1.95		0.80	[illegible]		
	FF:-	2.50	2	1.20		1.20	7.20		
		2.50	1	0.90		1.20	[illegible]		
	Staire case Grill	2.50	1	3.45		0.80	6.90		

Executive Engineer
Yelahanka Division
B.B.M.P Bangalore-64

		2.50	1	0.90		0.80	1.80		
		2.50	1	1.95		0.80	3.90		
	CG:-Second floor	2.50	1	1.80		2.40	10.80		
	Third floor	2.50	1	1.80		2.40	10.80		
	Kanakanagara School:-								
	Staircase Grill	2.25	2	12.00		0.80	43.20		
					Total Qty		**395.16**	157.43	**62210.43**
35	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity)								
	Sintex Tank	Ltr	2000				2000.00		
					Total Qty		**2000.00**	10.19	**20380.00**
36	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required W.C. pan with ISI marked white solid plastic seat and lid								
	WC Pan	Each	1				1.00		
					Total Qty		**1.00**	5479.33	**5479.33**
37	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :One urinal basin with 5 litre white P.V.C. automatic flushing cistern.								
	Urinals	Each	1				1.00		
					Total Qty		**1.00**	5044.42	**5044.42**
38	White Vitreous China Flat back wash basin size 550x 400 mm.								
	Wash Basin	Each	1				1.00		
					Total Qty		**1.00**	622.91	**622.91**
39	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore.								
	Bib Cock	Nos.	5				5.00		
					Total Qty		**5.00**	345.43	**1727.15**
40	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore.								
	Stop Cock	Nos.	2				2.00		
					Total Qty		**2.00**	345.43	**690.86**
41	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore.								
	Valve	Nos.	2				2.00		
					Total Qty		**2.00**	355.62	**711.24**
42	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame.								
	Mirror	Each	2				2.00		
					Total Qty		**2.00**	815.44	**1630.88**
43	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) 20mm nominal dia pipes.								
	Sanitary & Waste water line Pipe	Mtr	8	6.00			48.00		
					Total Qty		**48.00**	429.44	**20613.12**
44	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion, [i] single socketed pipes 100mm diameter.								
	Rain Water pipes	Mtr	5	6.00			30.00		
					Total Qty		**30.00**	329.57	**9887.10**

45	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.									
	Roof Surface:-1st floo Terrace	Sqm	1	8.40	4.65		39.06		
			1	4.90	1.35		6.62		
			1	1.50	0.55		0.83		
	2nd floor Terrace		1	6.50	5.20		33.80		
			1	5.90	1.30		7.67		
			1	5.00	2.45		12.25		
	3rd floor Room Terrace		1	5.00	3.35		16.75		
					Total Qty		**116.97**	925.30	**108232.34**
46	Supply and delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments2 HP, Size 50x40 Head 22M, Discharge 186 LPM.								
	Motor	Each	1				1.00		
					Total Qty		**1.00**	19785.82	**19785.82**
47	Open conduit System: Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using WF screws.a) 19/20mm dia 2mm thick.								
		Mtr	1	210.00			210.00		
					Total Qty		**210.00**	71.04	**14918.40**
48	Supplying and flush mounting teak wooden box without front plank, made of not less than 15mm thick wood, after due groove cutting, necessary masonry patch work complete. d)8"x6"x3"(203x152x76mm).								
		Each	5				5.00		
					Total Qty		**5.00**	88.55	**442.75**
49	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch								
		Point	5				5.00		
					Total Qty		**5.00**	293.44	**1467.20**
50	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials b) Medium point above 3Mtr upto 6Mtr from tapping pointr to out let via switch.								
		Each	3				3.00		
					Total Qty		**3.00**	405.66	**1216.98**
51	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materialsc)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch.								
		Each	4				4.00		
							4.00	586.87	**2347.48**
52	Supplying 6A flush/projected type socket and a 6 amps flush/ projected type SP switch either surface/flush mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way.								
		Each	2				2.00		
					Total Qty		**2.00**	147.23	**294.46**
53	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.a) 1.5 sqmm.								
		Mtr	1	290.00			290.00		
							290.00	26.77	**7763.30**

54	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.b)2.5Sqmm.								
		Mtr	1	245.00			245.00		
						Total Qty	**245.00**	43.24	**10593.80**
55	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.c) 4 sqmm.								
		Mtr	1	260.00			260.00		
						Total Qty	**260.00**	64.86	**16863.60**
56	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws.								
		Sq cm	1	10000.00			10000.00		
						Total Qty	**10000.00**	0.42	**4200.00**
57	Supplying and fixing retrofit type -PL-LED lamp ... W LED linear Source with CCT 6500 degree K, CRI>70%efficacy>80 lumen per watt,life>25000 burning hours and compliance to IS 10322/IEC 60598,LM 79 and LM80.The LED are driven by HF electronicdriver integrated in the system, with PF>0.95, power loss Should <5% of lam Wattage.,short Circuit and open circuit Protection to be integrated Circuit, THD less than 20%,life as per LM79.the operating input voltage should be between130 t 275 volts.Tested by NABL/CPRI accredited laboratory with 2 years Warranty agnist any manufacturing defect working under standard electrical condition.18-20Watts.								
		Each	15				15.00		
						Total Qty	**15.00**	722.78	**10841.70**
58	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply.								
		Each	5				5.00		
						Total Qty	**5.00**	145.17	**725.85**
59	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)6-32amps TPN . Group A								
		Each	2				2.00		
						Total Qty	**2.00**	1767.82	**3535.64**
60	Supplying, fixing and wiring Electronic Trivector Meter (ETV) 5 to 32/63 A three phase 4 wire whole current class-1 Accuracy Energy Meter.								
		Each	1				1.00		
						Total Qty	**1.00**	5873.87	**5873.87**
61	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system 48" sweep (1200mm).								
		Each	4				4.00		
						Total Qty	**4.00**	3072.33	**12289.32**
							Sub Total Rs		**2616779.10**
								Add 18% of GST Rs	471020.24
								Grand Total RS	**3087799.34**

CERTIFICATE:

1) Certified that the above work done is satisfactory completed.

2) Certified that the there is no issue of Department tools.

Assistant Engineer
Ward No-04

02/08/2024
Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

Pre-Measurements

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Construction of Additional floor to Ambedkara Samudaya Bhavana in Allalasandra in ward No-04.

Agency:- SRI MANOJ NAIK B M,58 3rd Main Road,Manasa Layout,Kengeri Upanagara,Bangalore-560060.

Pre-Measurements Taken On:- 01/06/2024

S.NO	Description of Item	Unit	No	Mesurement			Qty	Remarks
				L	B	D		
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m.							
	Chambers	Cum	2	0.75	0.75	0.60	0.68	
	Sanitary line		1	9.00	0.60	1.10	5.94	
					Total Qty		**6.62**	

Assistant Engineer
Ward No-04

01/06/2024
Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Construction of Additional floor to Ambedkara Samudaya Bhavana in Allalasandra in ward No-04.

Agency:- SRI MANOJ NAIK B M,58 3rd Main Road,Manasa Layout,Kengeri Upanagara,Bangalore-560060.

Pre-Measurements Taken On:- 08/06/2024

S.NO	Description of Item	Unit	No	Mesurement			Qty	Remarks
				L	B	D		
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification.							
	Chambers	Cum	2	0.75	0.75	0.15	0.17	
					Total Qty		0.17	

Assistant Engineer
Ward No-04

08/06/2024
Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP
B.B.M.P. Ward No-04

Manoj Naik

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Construction of Additional floor to Ambedkara Samudaya Bhavana in Allalasandra in ward No-04.

Agency:- SRI MANOJ NAIK B M,58 3rd Main Road,Manasa Layout,Kengeri Upanagara,Bangalore-560060.

Pre-Measurements Taken On:- 13/06/2024

S.NO	Description of Item	Unit	No	Mesurement L	Mesurement B	Mesurement D	Qty	Remarks
13	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)							
	Columns:- 16mm Dia Vertical Rods	**Kg's**						
	Column's	6	4	4.20	100.80			
		4	4	3.50	56.00			
					100.80	1.58	**159.26**	
	20mm Dia Vertical Rods							
	Column's	6	6	4.20	151.20			
		4	4	3.50	56.00			
					151.20	2.42	**365.90**	
	Stirrupps, 8 mm Dia (0.20c/c)							
	Single Stirrup's	6	10	1.35	81.00			
		4	9	1.35	48.60			
	Double Stirrup's	6	11	0.90	59.40			
		4	8	0.90	28.80			
					217.80	0.39	**84.94**	
	Measurements Continued on:- 18/06/2024							
	Staire case:-							
	Main Bottom & Top Rods,12 mm Dia(0.12c/c)							
	Staire case:-5th flight	17	1	4.50	76.50			
	6th flight	17	1	2.10	35.70			
					112.20	0.89	**99.86**	
	Distrubution Rods,10 mm Dia(0.15c/c)							
	Staire case:-5th flight	24	1	1.00	24.00			
	Landing	13	1	2.10	27.30			
	6th flight	20	1	1.00	20.00			
					71.30	0.89	**63.46**	
	Lintel Beams:-							
	Main Bottom & Top Rods,12 mm Dia							
	Second floor Long Wall	6	2	9.20	110.40			
	Short Wall	6	2	4.95	59.40			
		6	2	1.50	18.00			
	Third floor Room:- Long Wall	6	2	5.30	63.60			
	Short Wall	6	2	2.45	29.40			
					280.80	0.89	**249.91**	
	Stirrup,s 8mm Dia (0.20c/c)							
	Second floor Long Wall	45	2	0.90	81.00			
	Short Wall	25	2	0.90	45.00			
		7	2	0.90	12.60			
	Third floor Room:- Long Wall	26	2	0.90	46.80			
	Short Wall	12	2	0.90	21.60			
					207.00	0.39	**80.73**	
	Chejja(self):-							
	Main Rods 12mm Dia(0.10c/c)							
		47	1	1.35	63.45			
					63.45	0.89	**56.47**	
	Distrubutions 10mm Dia(012c/c)	7	1	4.65	32.55			
					32.55	0.62	**20.18**	

Measurements Continued on:-							
Roof Beams:-							
Main Bottom & Top Rods,20 mm Dia							
Second floor Long Wall	4	2	9.40	75.20			
Short Wall	4	2	5.15	41.20			
	4	2	1.70	13.60			
Third floor Room:-Long Wall	4	2	5.50	44.00			
Short Wall	4	2	2.65	21.20			
				195.20	2.42	**472.38**	
Main Bottom & Top Rods,25 mm Dia							
Second floor Long Wall	4	2	9.40	75.20			
Short Wall	4	2	5.15	41.20			
	4	2	1.70	13.60			
Third floor Room:-Long Wall	4	2	5.50	44.00			
Short Wall	4	2	2.65	21.20			
				195.20	3.20	**624.64**	
Stirrup,s 8mm Dia (0.20c/c)							
Second floor Long Wall	45	2	1.35	121.50			
Short Wall	25	2	1.35	67.50			
	7	2	1.35	18.90			
Third floor Room:-Long Wall	26	2	1.35	70.20			
Short Wall	12	2	1.35	32.40			
				310.50	0.39	**121.10**	
Roof:-							
Main Rods 12mm dia (0.12c/c)							
Alternative crank rods							
Roof Slab:-Second floor	33	1	5.30	174.90			
	28	1	1.45	40.60			
	21	1	2.65	55.65			
Additional rods							
Roof Slab:-Second floor	33	3	2.15	212.85			
	28	3	2.15	180.60			
	21	3	2.15	135.45			
Straight rods							
Roof Slab:-Second floor	11	6	5.20	343.20			
	11	6	1.35	89.10			
	11	6	2.55	168.30			
				1400.65	0.62	**868.40**	
Distrubution Rods 8mm dia (0.15c/c)							
Alternative crank rods							
Roof Slab:-Second floor	27	1	6.60	178.20			
	10	1	6.00	60.00			
	12	1	5.10	61.20			
Additional rods							
Roof Slab:-Second floor	27	2	1.65	89.10			
	10	2	1.65	33.00			
	12	2	1.65	39.60			
Straight rods							
Roof Slab:-Second floor	12	6	6.60	475.20			
	12	6	6.00	432.00			
	12	6	5.10	367.20			
				1735.50	0.39	**676.85**	

Manoj Dalla

	Measurements Continued on:- 26/06/2024							
	Roof:-							
	Main Rods 10mm dia (0.12c/c)							
	Main rods							
	Third floor Room	43	1	3.45	148.35			
		42	1	4.45	186.90			
					335.25	0.62	**207.86**	
	Main Rods 8mm dia (0.15c/c)							
	Third floor Room	24	1	5.00	120.00			
		23	1	5.00	115.00			
					235.00	0.39	**91.65**	
					Total Qty		**4243.59**	

Assistant Engineer
Ward No-04

26/06/2024
Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP